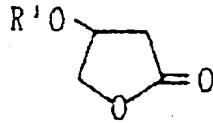


EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 04173767
 PUBLICATION DATE : 22-06-92



APPLICATION DATE : 02-11-90
 APPLICATION NUMBER : 02298658

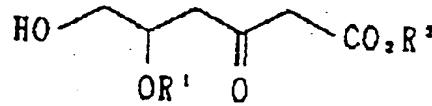
L i C H ₂ C O ₂ R ¹

APPLICANT : KANEKA FUCHI CHEM IND CO LTD;

INVENTOR : TAKAHASHI SATOMI;

INT.CL. : C07C 69/716 C07C 67/343 C07F 7/18

TITLE : PRODUCTION OF
 5,6-DIHYDROXY-3-OXOHEXANOIC
 ACID ESTER DERIVATIVE



B r C H ₂ C O ₂ R ¹

ABSTRACT : PURPOSE: To obtain the title compound useful as an intermediate for HMG-CoA reductase inhibitor efficiently and economically by reacting 3-hydroxy- γ -butyrolactone derivative with lithium enolate of acetic ester.

CONSTITUTION: A compound shown by formula I (R^1 is H or silyl type protecting group) is allowed to react with a compound shown by formula II (R^2 is 1-10C alkyl, aralkyl or aryl), preferably lithium enolate prepared by reacting t-butyl acetate with lithium diisopropylamide at -100 to 20°C, preferably -80 to 0°C to give a compound shown by formula III. Or, the compound shown by formula I is reacted with an α -bromoacetic acid ester shown by formula IV in the presence of zinc at 15-70°C, preferably 20-65°C to give a compound shown by formula III.

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